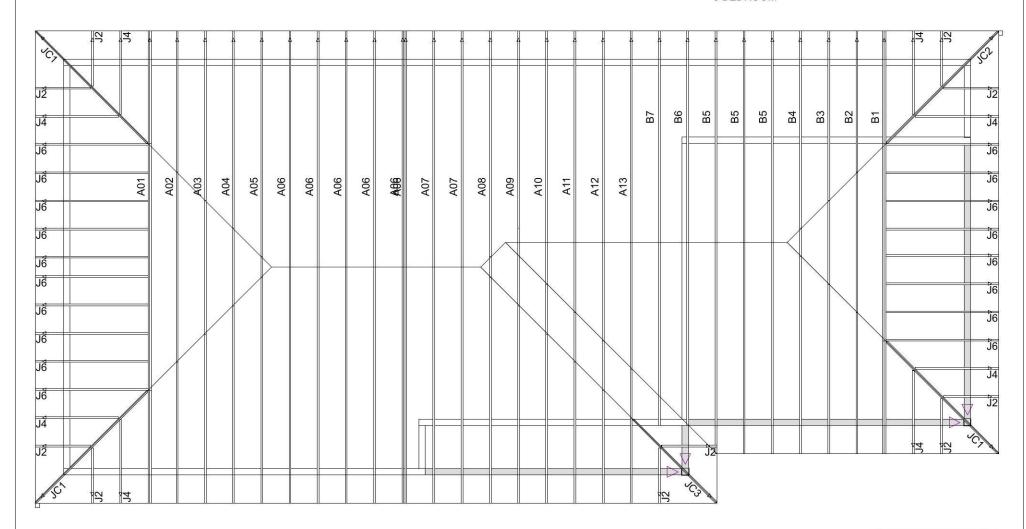
### 3 BEDROOM



REVIEWED FOR DESIGN CRITERIA ONLY

Indicates le	eft end of truss	Drawing is not to scale u.n	.o. Dashed walls indicate a non-bearing wall				
	Client: Truss Package		By signing below, I agree that I have reviewed this layout and the attached truss drawings and found them to be in	Disclaimer: This Truss Placement Diagram was not created by an engineer, but rather by the			
	Job Name: Home of my own		conformance to my needs for this project, even if it they have deviated from the plans.	Ballard Truss Staff and is purely to be used as an installation guide and does not require a seal.			
BALLARD TRUSS	Job #: 116110		Signed:	Complete truss engineering and analysis can be found on the Truss Design Drawings which may be sealed by the Truss Designer.			
	Location: , Prescott AZ		Date:	be sealed by the Truss Designer.			



MiTek USA, Inc. MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661 Telephone 916-755-3571

Re: 105782

Yavapai County 3 Bedroom

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Ballard-Mesa, Snow.

Pages or sheets covered by this seal: R64674492 thru R64674517

My license renewal date for the state of Arizona is March 31, 2022.

Arizona COA: 11906-0

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.



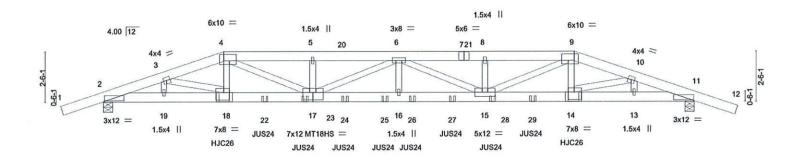
December 9,2020

Dyer, Cecil

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

REVIEWED FOR DESIGN CRITERIA ONLY

Job				Truss			Truss Type			Qty	Ply	Yavapai Count	ty 3 Bedroom		
							and an arranged			1000					R64674492
105	782			A01			GIRDER			1	2				
											_	Job Reference	(optional)		
Ba	llard Truss I	LC.	Sno	wflake	AZ - 85937					11	8.430 s Nov	30 2020 MiTek	Industries, Inc. To	ue Dec 8 08:52:2	24 2020 Page 1
									ID:CpePS	MOILFRA	S2JS9OCf9	evB4UR-wQ9sF	FI5Z1JK8?O_IAIBI	OMM6xbFWzbE	a8ZKyfQyB4HL
	-2-0-0	1	3-0-0	1	6-0-0	T.	10-5-6	14-9-0		-0-10	100	23-6-0	26-6-0	29-6-0	31-6-0
	2-0-0		3-0-0	1	3-0-0		4-5-6	4-3-10	4	3-10		4-5-6	3-0-0	3-0-0	2-0-0



	3-0-0	6-0-0	10-5-6	14-9-0	19-0-1	0		23-6-0	,	26-6-0	29-6-0	
	3-0-0	3-0-0	4-5-6	4-3-10	4-3-1	)	1	4-5-6	1	3-0-0	3-0-0	
Plate Offsets (X,Y)	[2:1-0-6,	0-0-8], [4:0-7-8,0-3	-12], [9:0-7-8,0-3	3-12], [11:1-0-6,0-0-8],	[14:0-3-8,0-4-8], [	17:0-6-0	,0-4-8]	[18:0-3-8	3,0-4-8]			
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 NO PI2014	CSI. TC 0.49 BC 0.83 WB 0.45 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.68 -0.90 0.16	(loc) 16 16 11	I/defl >510 >387 n/a	L/d 240 180 n/a	PLATE MT20 MT18H Weight		GRIP 185/144 185/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E

**BOT CHORD** 2x6 SPF 2100F 1.8E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

4-17,6-17,6-15,9-15: 2x4 SPF 1650F 1.5E

REACTIONS.

(size) 2=0-5-8, 11=0-5-8

Max Horz 2=-51(LC 7)

Max Uplift 2=-769(LC 6), 11=-769(LC 7) Max Grav 2=4659(LC 17), 11=4659(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-10979/1505, 3-4=-12785/1799, 4-5=-17201/2417, 5-6=-17200/2417, 6-8=-17200/2417, 8-9=-17201/2417, 9-10=-12785/1799, 10-11=-10979/1508

**BOT CHORD** 

2-19=-1379/10199, 18-19=-1379/10199, 17-18=-1663/12252, 16-17=-2608/19158, 15-16=-2608/19158, 14-15=-1615/12252, 13-14=-1334/10199, 11-13=-1334/10199 3-19=-616/155, 3-18=-291/2081, 4-18=-113/1212, 4-17=-774/5443, 5-17=-526/166,

6-17=-2174/373, 6-16=-123/1160, 6-15=-2174/371, 8-15=-526/165, 9-15=-775/5443, 9-14=-114/1213, 10-14=-288/2081, 10-13=-616/154

### NOTES-

WEBS

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to

ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33

4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

5) Unbalanced snow loads have been considered for this design.

6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

7) Provide adequate drainage to prevent water ponding.

8) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

9) All plates are MT20 plates unless otherwise indicated.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

11) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

### Continued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansirtpi1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





seville, CA 95661

Structural wood sheathing directly applied or 4-1-9 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom R64674492
105782	A01	GIRDER	1	2	Job Reference (optional)
Ballard Truss LLC, Sn	owflake, AZ - 85937,	me-24611741	8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:24 2020 Page 2

ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-wQ9sFI5Z1JK8?O\_IAiBtOMM6xbFWzbEa8ZKyfQyB4HL

### NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 769 lb uplift at joint 2 and 769 lb uplift at joint 11.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

14) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 17-5-4 oc max. starting at 6-0-6 from the left end to 23-5-10 to connect truss(es) to back face of bottom chord.

15) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-12 from the left end to 21-5-4 to connect truss(es) to back face of bottom chord.

16) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-9=-100, 9-12=-100, 2-11=-20

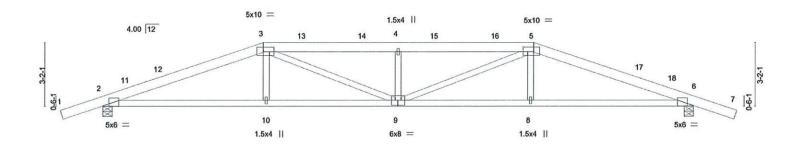
Concentrated Loads (lb)

Vert: 18=948(B) 14=-948(B) 22=-407(B) 23=-407(B) 24=-407(B) 25=-407(B) 26=-407(B) 27=-407(B) 28=-407(B) 29=-407(B)

**REVIEWED FOR DESIGN CRITERIA** ONLY



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	
		267			140	R64674493
105782	A02	Hip	1	1		
					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			3.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 0	08:52:26 2020 Page 1
			ID:CpePSM0lLfR	AS2JS9OC	f9eyB4UR-soHdg_7pZwasEh7gl6ELTnSPYI	PymRQntctp3klyB4HJ
-2-0-0	8-0-0	14-9-0	21-	6-0	29-6-0	31-6-0
2-0-0	8-0-0	6-9-0	6-9	-0	8-0-0	2-0-0



	8-0-0 8-0-0		14-9-0 6-9-0	-	21-6-0 6-9-0	_	-		29-6-0 8-0-0	
Plate Offsets (X,Y)	[2:0-3-10,Edge], [3:0-6-4,0-	2-12], [5:0-6-4			0.0.0					
LOADING (psf)           TCLL 40.0           (Roof Snow=40.0)           TCDL 10.0           BCLL 0.0           BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T8	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.67 BC 0.78 WB 0.70 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.42 -0.59 0.17	(loc) 9 9 6	I/defl >838 >595 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 124 lb	GRIP 185/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

**BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 6=0-5-8

Max Horz 2=-63(LC 15)

Max Uplift 2=-372(LC 10), 6=-372(LC 11)

Max Grav 2=2097(LC 35), 6=2097(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD BOT CHORD

2-3=-4257/656, 3-4=-5441/822, 4-5=-5441/822, 5-6=-4257/656

2-10=-502/3931, 9-10=-498/3939, 8-9=-513/3939, 6-8=-517/3931

**WEBS** 

3-10=0/305, 3-9=-232/1625, 4-9=-1125/226, 5-9=-233/1625, 5-8=0/305

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 12-11-6, Interior(1) 23 4 6 to 23 6 0. Exterior(2R) 2-16 5 6 1-16 5 Interior(1) 12-11-6 to 21-6-0, Exterior(2R) 21-6-0 to 26-5-6, Interior(1) 26-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DDL=1.33 plate grip DDL=1.33 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.

referenced standard ANSI/TPI 1.

- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 372 lb uplift at joint 2 and 372 lb uplift at 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



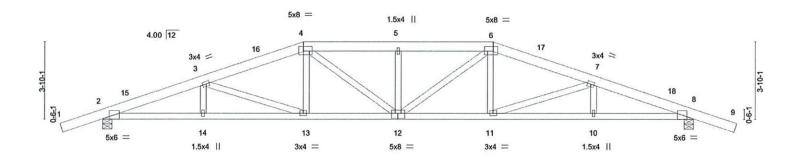
Structural wood sheathing directly applied or 3-3-13 oc purlins.

Rigid ceiling directly applied or 9-10-1 oc bracing.

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek@connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bed	droom	9.07 94 (VECUTAL VECUTAL VECUT
								R64674494
105782	A03	Hip		1	1	and the second second		
						Job Reference (optional	al)	
Ballard Truss LLC,	Snowflake, AZ - 85937,				8.430 s Nov	30 2020 MiTek Industri	ies, Inc. Tue Dec 8 08:5	2:27 2020 Page 1
				ID:CpePSI	MOIL FRAS2J	S9OCf9eyB4UR-K_r?ul	<7RKEjjsritrqla0?_gEpIC.	Avb0qXZcGlyB4HI
-2-0-0	5-0-0	10-0-0	14-9-0	19-6-0	1	24-6-0	29-6-0	31-6-0
2-0-0	5-0-0	5-0-0	4-9-0	4-9-0	-	5-0-0	5-0-0	2-0-0



-	5-0-0 5-0-0	10-0-0 5-0-0	14-9-0	19-6-0	24-6-0	29-6-0
Plate Offsets (X,Y)	[2:0-3-14,Edge], [4:0-5-4,		4-9-0 0-2-12], [8:0-3-14,Edge],	4-9-0 [12:0-4-0,0-3-0]	5-0-0	5-0-0
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018		CSI. TC 0.29 BC 0.71 WB 0.54 Matrix-SH	DEFL. in (lo Vert(LL) -0.27 Vert(CT) -0.41 12-1 Horz(CT) 0.16	12 >999 240	PLATES GRIP MT20 185/144 Weight: 141 lb FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=-75(LC 19)

Max Uplift 2=-363(LC 10), 8=-363(LC 11)

Max Grav 2=2309(LC 35), 8=2309(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4371/715, 3-4=-3754/644, 4-5=-3854/702, 5-6=-3854/702, 6-7=-3754/644,

7-8=-4371/714

**BOT CHORD** 2-14=-585/3975, 13-14=-585/3975, 12-13=-449/3520, 11-12=-466/3520, 10-11=-601/3975,

8-10=-601/3975

WEBS 3-13=-872/144, 4-13=0/411, 4-12=-130/791, 5-12=-762/162, 6-12=-130/791, 6-11=0/411,

7-11=-872/143

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-9-0, Interior(1) 14-9-0 to 19-6-0, Exterior(2R) 19-6-0 to 24-6-0, Interior(1) 24-6-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 363 lb uplift at joint 2 and 363 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



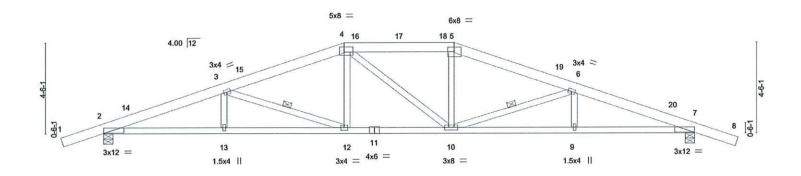
Structural wood sheathing directly applied or 4-2-0 oc purlins.

Rigid ceiling directly applied or 9-3-4 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was and truss of the stability and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSIIPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		
		3000					R64674495
105782	A04	Hip	1	1			
POSSESSES CONTRACTOR OF THE PO	0.000	18.50			Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,			8.430 s Nov	30 2020 MiTek Industries, In	c. Tue Dec 8 08	:52:28 2020 Page 1
			ID:CpePSM0lLfRAS	2JS9OCf9ey	B4UR-oBPN5g835YraU?H3F	XGpYCXpTDduv	vO3A3BIAoByB4HH
-2-0-0	6-0-0	12-0-0	17-6-0	2	3-6-0	29-6-0	31-6-0
2-0-0	6-0-0	6-0-0	5-6-0	(	6-0-0	6-0-0	2-0-0



-	6-0-0	12-0-0 6-0-0		17-6-0 5-6-0	23-6-0 6-0-0		29-6-0 6-0-0	
Plate Offsets (X,Y)								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/I	2-0-0 1.15 1.15 YES	CSI. TC 0.39 BC 0.81 WB 0.39 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.33 12-13 >999 -0.47 12-13 >734 0.19 7 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 137 lb	GRIP 185/144 FT = 10%

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

**BRACING-**

**TOP CHORD** Structural wood sheathing directly applied or 3-9-3 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 9-2-7 oc bracing. **WEBS** 

1 Row at midpt 3-12, 6-10

REACTIONS.

(size) 2=0-5-8, 7=0-5-8

Max Horz 2=88(LC 18)

Max Uplift 2=-351(LC 10), 7=-351(LC 11) Max Grav 2=2521(LC 35), 7=2521(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-4973/726, 3-4=-3625/622, 4-5=-3323/629, 5-6=-3630/622, 6-7=-4971/726

**BOT CHORD** 

2-13=-591/4524, 12-13=-591/4524, 10-12=-407/3318, 9-10=-607/4522, 7-9=-607/4522

**WEBS** 

3-12=-1296/201, 4-12=-0/546, 4-10=-352/360, 5-10=-1/544, 6-10=-1288/204

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 17-6-0, Exterior(2R) 17-6-0 to 22-5-6, Interior(1) 22-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Cl=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.

referenced standard ANSI/TPI 1.

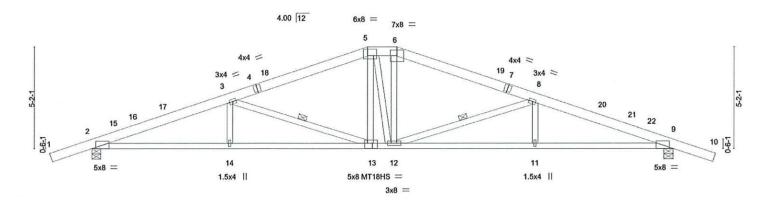
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2 and 351 lb uplift at ioint 7. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® on The Note of the Second Process of the Note of the



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	
		5.55					R64674496
105782	A05	Hip		1	1		
	1000					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			8	430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 0	8:52:30 2020 Page 1
			ID:CpeF	SMOILIRA	S2JS9OCf	9eyB4UR-IZW8WLAJd95IjJRSXylHedc7a0H	NJeTWVnHt4yB4HF
-2-0-0	7-0-0	14-0-0	15-6-0		22-6-0	29-6-0	31-6-0
2-0-0	7-0-0	7-0-0	1-6-0		7-0-0	7-0-0	2-0-0



-	7-0-0		14-0-0		15-6-0	22-6-0			29-6-0	
	7-0-0	<del></del>	7-0-0		1-6-0	7-0-0			7-0-0	
Plate Offsets (X,Y) [2:0	0-2-6,Edge], [5:0-5-8,0-4-	·0], [9:0-2-6,E	dge], [13:0-3-	-4,0-3-0]						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.48 0.91 0.32 c-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.40 13-14 -0.58 13-14 0.22 9	l/defl >870 >605 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 137 lb	GRIP 185/144 185/144 FT = 10%

**BRACING-**

WEBS

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

3-13,8-12: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 9=0-5-8

Max Horz 2=100(LC 18) Max Uplift 2=-338(LC 10), 9=-338(LC 11) Max Grav 2=2733(LC 35), 9=2733(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-5537/669, 3-5=-3824/533, 5-6=-3506/551, 6-8=-3850/535, 8-9=-5532/676 TOP CHORD

2-14=-531/5050, 13-14=-531/5050, 12-13=-307/3493, 11-12=-555/5045, 9-11=-555/5045 **BOT CHORD** WEBS

3-14=0/289, 3-13=-1677/263, 5-13=-33/614, 5-12=-353/415, 6-12=-52/628,

8-12=-1646/265, 8-11=0/284

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-5-6, Interior(1) 20-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 2 and 338 lb uplift at joint 9.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-4-5 oc purlins.

3-13, 8-12

Rigid ceiling directly applied or 9-7-4 oc bracing.

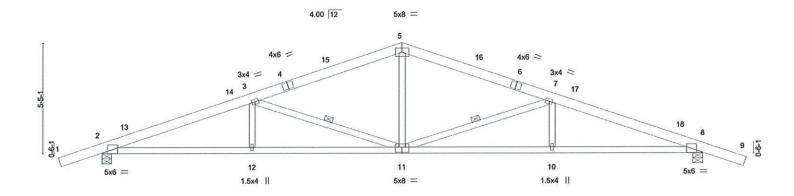
1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPIT Quality Criteria, DSB-99 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	
						R64674497
105782	A06	Common	6	1	DO 1999-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
	100,4 %	25210001/30 35			Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,		8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8	08:52:31 2020 Page 1
A CONTRACTOR OF A CONTRACTOR O	CONTROL AND		ID:CpePSM0ILfRAS:	JS9OCf9e	yB4UR-Dm4WjhByOTD9LT0e4gpWAr9INQ	gu6lPcl9XqPWyB4HE
-2-0-0	7-4-8	14-9-0		22-1-8	29-6-0	31-6-0
2-0-0	7-4-8	7-4-8		7-4-8	7-4-8	2-0-0



v =	7-4-8	Y	14-9-0	22-1-8	29-6-0
	7-4-8		7-4-8	7-4-8	7-4-8
Plate Offsets (X,Y)	[2:0-3-6,Edge], [8:0-3-6,Edg	e], [11:0-4-0,0	-3-0]		
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.48 BC 0.72 WB 0.42 Matrix-SH	DEFL. in (loc) I/def Vert(LL) -0.26 11-12 >999 Vert(CT) -0.43 11-12 >816 Horz(CT) 0.16 8 n/s	9 240 MT20 185/144 6 180

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

7-11,3-11: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 8=0-5-8

Max Horz 2=105(LC 14)

Max Uplift 2=-332(LC 10), 8=-332(LC 11) Max Grav 2=1998(LC 21), 8=1998(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4166/612, 3-5=-2797/480, 5-7=-2797/480, 7-8=-4166/611

**BOT CHORD** 2-12=-470/3818, 11-12=-470/3818, 10-11=-491/3818, 8-10=-491/3818 5-11=-61/973, 7-11=-1578/288, 7-10=0/291, 3-11=-1578/286, 3-12=0/291 WEBS

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-3-0, Interior(1) 18-3-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 332 lb uplift at joint 2 and 332 lb uplift at ioint 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-1-5 oc purlins.

7-11, 3-11

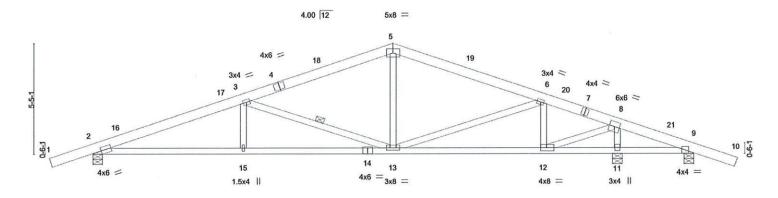
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

▲ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		in Description
							R64674498
105782	A07	Common	2	1			
					Job Reference (optional)		
Ballard Truss LLC.	Snowflake, AZ - 85937,		3	.430 s Nov	30 2020 MiTek Industries, Inc. Tu	e Dec 8 08:52:32	2020 Page 1
			ID:CpePSM0ILI	RAS2JS90	Cf9eyB4UR-hyeux1Ba9mL0ycbqe	NLlj2iUcq2SrByl_j	GNxyyB4HD
-2-0-0	7-4-8	14-9-0		22-1-8	25-9-4	29-6-0	31-6-0
2-0-0	7-4-8	7-4-8		7-4-8	3-7-12	3-8-12	2-0-0



-	7-4-8	_	14-9-0	22-1-8		25-9-4 3-7-12	3-8-12	
Plate Offsets (X,Y)	7-4-8 [2:0-5-2,0-2-0], [12:0-3-8,0-	2-0]	7-4-8	7-4-8		3-7-12	3-8-12	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.45 BC 0.64 WB 0.46 Matrix-SH	DEFL. in (lo Vert(LL) -0.18 13-' Vert(CT) -0.29 13-' Horz(CT) 0.08	15 >999	L/d 240 180 n/a	PLATES MT20 Weight: 132 lb	GRIP 185/144 FT = 10%

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

**BOT CHORD** 2x4 SPF 1650F 1.5E

**WEBS** 

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

3-13,6-13,8-12: 2x4 SPF 1650F 1.5E

**BRACING-**

Structural wood sheathing directly applied or 4-7-0 oc purlins. TOP CHORD

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS

1 Row at midpt 3-13

REACTIONS.

(size) 2=0-5-8, 11=0-5-8, 9=0-5-8

Max Horz 2=105(LC 14) Max Uplift 2=-311(LC 10), 11=-202(LC 11), 9=-183(LC 21) Max Grav 2=1787(LC 21), 11=2176(LC 1), 9=496(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3557/524, 3-5=-2000/378, 5-6=-1997/386, 6-8=-1746/311, 8-9=-123/1121 TOP CHORD

2-15=-387/3246, 13-15=-387/3246, 12-13=-184/1631, 11-12=-989/184, 9-11=-989/184 **BOT CHORD** WEBS

3-15=0/290, 3-13=-1617/290, 5-13=-3/469, 6-13=-65/712, 6-12=-842/207,

8-12=-372/2672, 8-11=-2090/324

### NOTES-

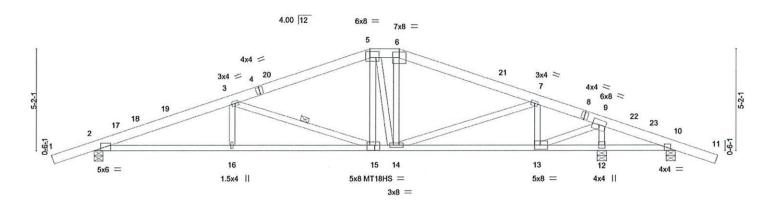
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-9-0, Exterior(2R) 14-9-0 to 18-3-0, Interior(1) 18-3-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 311 lb uplift at joint 2, 202 lb uplift at joint 11 and 183 lb uplift at joint 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek's connectors. This dosign is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		
		350		1000	0000			R64674499
105782	A08	Hip		1	1			
						Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,				8.430 s Nov	30 2020 MiTek Industries, Inc. To	ue Dec 8 08:52:	33 2020 Page 1
			ID:CpePSN	10ILfRAS2	2JS9OCf9ey	B4UR-98CG8NCCv4TtamA0C5s_	FGEfeELuacUvl	DS0xUPyB4HC
-2-0-0	7-0-0	14-0-0	15-6-0		22-6-0	25-9-4	29-6-0	31-6-0
2-0-0	7-0-0	7-0-0	1-6-0		7-0-0	3-3-4	3-8-12	2-0-0



1	7-0-0	1	14-0-0	15-6-0	1	22-6-0		1	25-9-4	29-6-0	
	7-0-0	1	7-0-0	1-6-0	1	7-0-0		1	3-3-4	3-8-12	
Plate Offsets (X,Y)	[2:0-4-2,Edge], [5:0-5-8,0-3-	12], [13:0-3-8,	0-2-8], [15:0-3	3-4,0-3-0]							
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	BC (	0.43 Ve 0.75 Ve 0.64 Ho	ert(LL) -0.25	(loc) 5 15-16 7 15-16 ) 12	l/defl >999 >829 n/a	L/d 240 180 n/a		PLATES MT20 MT18HS Weight: 142 lb	GRIP 185/144 185/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

3-15,7-14,9-13: 2x4 SPF 1650F 1.5E

(size) 2=0-5-8, 12=0-5-8, 10=0-5-8 REACTIONS.

Max Horz 2=100(LC 18)

Max Uplift 2=-316(LC 10), 12=-213(LC 11), 10=-195(LC 21) Max Grav 2=2375(LC 35), 12=2966(LC 35), 10=494(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-4508/573, 3-5=-2740/424, 5-6=-2374/427, 6-7=-2669/415, 7-9=-1950/304, TOP CHORD

9-10=-146/1575

2-16=-441/4084, 15-16=-441/4084, 14-15=-197/2464, 13-14=-196/1797, 12-13=-1390/206, **BOT CHORD** 10-12=-1390/206

3-16=0/291, 3-15=-1745/266, 5-15=-38/630, 5-14=-581/148, 6-14=-98/429,

7-14=-58/785, 7-13=-1246/235, 9-13=-409/3451, 9-12=-2873/351

### NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 14-0-0, Exterior(2E) 14-0-0 to 15-6-0, Exterior(2R) 15-6-0 to 20-5-6, Interior(1) 20-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) All plates are MT20 plates unless otherwise indicated.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 2, 213 lb uplift at joint 12 and 195 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-10-11 oc purlins.

3-15

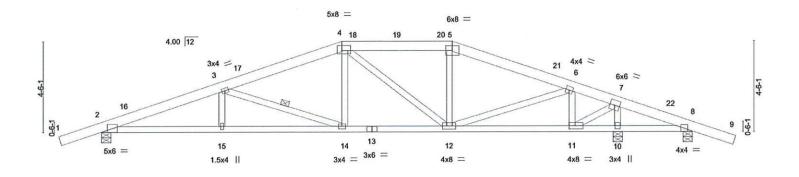
Rigid ceiling directly applied or 5-11-11 oc bracing.

1 Row at midpt

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai Count	y 3 Bedroom		200 P. S.
					2.5				R64674500
105782	A09	Hip		1	1				
25 A = 22 5 (25 ) (5)	0000000			21		Job Reference	(optional)		
Ballard Truss LLC.	Snowflake, AZ - 85937,			3	3.430 s Nov	30 2020 MiTek	Industries, Inc. T	ue Dec 8 08:52	:34 2020 Page 1
20 TO SOUTH TO SEE SOUTH THE TOTAL TO			ID:CpePS	MOILFRA	S2JS9OCf9	eyB4UR-dLmel	MjDqgObkCwlDm	oNDoTnrhdiTJ3	w2R6IU0ryB4HB
-2-0-0	6-0-0	12-0-0	17-6-0	1	2	3-6-0	25-9-4	29-6-0	31-6-0
2-0-0	6-0-0	6-0-0	5-6-0		6	6-0-0	2-3-4	3-8-12	2-0-0



1	6-0-0	12-0-0	-	17-6-0	-		3-6-0	-	25-9-4	29-6-0	
Plate Offsets (X,Y)	6-0-0 [2:0-3-6,Edge], [4:0-5-4,0-3	6-0-0 -4], [11:0-3-8,0-2	-0]	5-6-0	78792		6-0-0		2-3-4	3-8-12	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0. BC 0. WB 0. Matrix-SI	67 Vert(CT) 63 Horz(CT)		14-15 14-15	I/defl >999 >994 n/a	L/d 240 180 n/a		PLATES MT20 Weight: 141 lb	GRIP 185/144 FT = 10%

BRACING-TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-TOP CHORD

REACTIONS.

D 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

7-11: 2x4 SPF 1650F 1.5E

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-88(LC 15)

Max Uplift 2=-327(LC 10), 10=-237(LC 11), 8=-218(LC 21) Max Grav 2=2200(LC 35), 10=2660(LC 35), 8=492(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4065/623, 3-4=-2662/513, 4-5=-1981/446, 5-6=-2239/442, 6-7=-1166/239,

7-8=-167/1455

BOT CHORD 2-15=-494/3674, 14-15=-494/3674, 12-14=-303/2414, 11-12=-143/1079, 10-11=-1282/230,

8-10=-1282/230

WEBS 3-14=-1365/204, 4-14=-2/570, 4-12=-710/130, 6-12=-128/1255, 6-11=-1348/273,

7-11=-401/2751, 7-10=-2582/375

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2R) 12-0-0 to 16-11-6, Interior(1) 16-11-6 to 17-6-0, Exterior(2R) 17-6-0 to 22-5-6, Interior(1) 22-5-6 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; P(=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 2, 237 lb uplift at joint 10 and 218 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-4 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

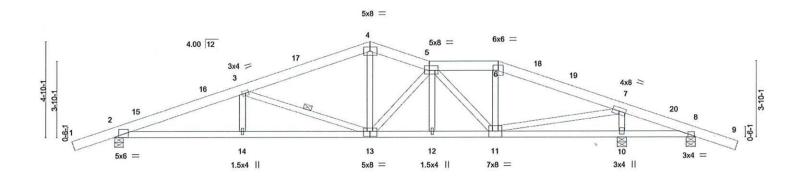
1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		
						*		R64674501
105782	A10	SPECIAL		1	1			
						Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,			8.	430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:3	36 2020 Page 1
* 1010111111111111111111111111111111111			ID:Cp	ePSM0ILfR/	AS2JS900	cf9evB4UR-ZiuPnPE4C?rSREut	otDPhtusB6RPyntq	LvQEb4jyB4H9
-2-0-0	6-6-0	13-0-0	16-0-0	19-6-6	0 1	25-9-4	29-6-0	31-6-0
2-0-0	6-6-0	6-6-0	3-0-0	3-6-0	,	6-3-4	3-8-12	2-0-0



1	6-6-0	1	13-0-0	16-0-0	19-6-0	25-9-4	29-6-0	
	6-6-0	1	6-6-0	3-0-0	3-6-0	6-3-4	3-8-12	5015
Plate Offsets (X,Y)	[2:0-2-10,Edge], [5:0-5-4,0-	2-12], [8:0-0-10	,Edge], [13:0-4-0,0-3-0	0]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.35 BC 0.60 WB 0.98 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 13-14 -0.30 13-14 0.08 10	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 144 lb	GRIP 185/144 FT = 10%

**BRACING-**

WEBS

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

WEBS

REACTIONS. (size) 2=0-5-8, 10=0-5-8, 8=0-5-8 Max Horz 2=-94(LC 15)

Max Uplift 2=-298(LC 10), 10=-209(LC 11), 8=-161(LC 11)

Max Grav 2=1791(LC 21), 10=2029(LC 37), 8=560(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-3588/574, 3-4=-2389/460, 4-5=-2254/478, 5-6=-2066/428, 6-7=-2292/422, TOP CHORD 7-8=-47/434

**BOT CHORD** 

2-14=-439/3276, 13-14=-439/3276, 12-13=-332/2497, 11-12=-331/2498, 10-11=-364/87, 8-10=-364/87

3-14=0/261, 3-13=-1373/236, 4-13=-113/901, 5-13=-806/154, 5-11=-834/141, 6-11=-24/292, 7-11=-328/2287, 7-10=-1922/380

### NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2E) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 19-6-0, Exterior(2R) 19-6-0 to 23-0-0, Interior(1) 23-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 2, 209 lb uplift at joint 10 and 161 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-7-6 oc purlins.

3-13

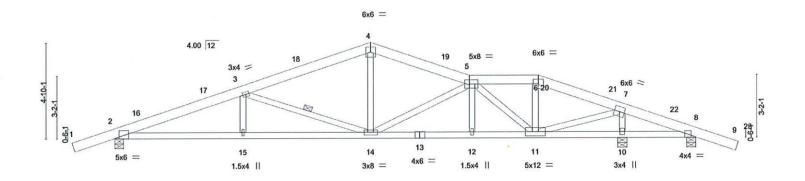
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job		Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom			
			1000		1.0	1			R64674502	:
105782		A11	SPECIAL		1	1				- 1
		1,000,000	- C.		l*		Job Reference (optional)			
Ballard	Truss LLC.	Snowflake, AZ - 85937,			1	3.430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:	37 2020 Page 1	
				ID:CpePs	MOILFRA	S2JS9OCf9	eyB4UR-1wRn_IFjzJzI3OToRv	wwwQ6PMgrlwWQI	U74_8dAyB4H8	
	-2-0-0	6-6-0	13-0-0	18-0-0		21-6-	0 25-9-4	29-6-0	31-6-0	
	2-0-0	6-6-0	6-6-0	5-0-0		3-6-	0 4-3-4	3-8-12	2-0-0	



1	6-6-0	1	13-0-0	18-0-0	21-6-0	25-9-4	29-6-0	
1	6-6-0		6-6-0	5-0-0	3-6-0	4-3-4	3-8-12	
Plate Offsets (X,Y) [2	:0-2-10,Edge], [5:0-5-4,0-	2-12]						
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.36 BC 0.62 WB 0.58 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/d -0.20 14-15 >9: -0.30 14-15 >9: 0.09 10 r	99 240	PLATES MT20 Weight: 140 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E BOT CHORD

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\* WEBS

7-11: 2x4 SPF 1650F 1.5E

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-10 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS

1 Row at midpt 3-14

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-94(LC 19)

Max Uplift 2=-297(LC 10), 10=-233(LC 11), 8=-289(LC 38) Max Grav 2=1821(LC 38), 10=2285(LC 22), 8=473(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 7-8=-151/1269

2-3=-3670/550, 3-4=-2321/434, 4-5=-2183/446, 5-6=-1566/341, 6-7=-1730/340,

**BOT CHORD** 

2-15=-417/3351, 14-15=-417/3351, 12-14=-350/2610, 11-12=-347/2614, 10-11=-1144/216,

8-10=-1144/216

3-15=0/258, 3-14=-1386/239, 4-14=-76/765, 5-14=-847/177, 5-11=-1363/226,

7-11=-408/2689, 7-10=-2177/400

### NOTES-

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 21-6-0, Exterior(2R) 21-6-0 to 25-0-0, Interior(1) 25-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

5) Provide adequate drainage to prevent water ponding.

6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

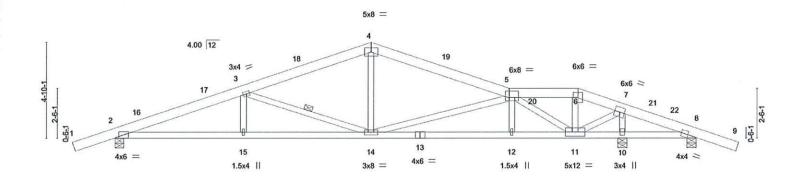
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2, 233 lb uplift at joint 10 and 289 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job	Truss	Truss Type	Qty	Ply	Yavapai County	3 Bedroom		
105700		9 (9 )						R64674503
105782	A12	Roof Special	1	1 1	er ar arrest to the second			
					Job Reference (	optional)		
Ballard Truss LLC.	Snowflake, AZ - 85937,			3.430 s Nov	30 2020 MiTek I	ndustries, Inc. T	ue Dec 8 08:52:	38 2020 Page 1
			ID:CpePSM0lLfR/					
-2-0-0	6-6-0	13-0-0	20-0-0		23-6-0	25-9-4	29-6-0	31-6-0
2-0-0	6-6-0	6-6-0	7-0-0		3-6-0	2-3-4	3-8-12	2-0-0



1	6-6-0 6-6-0	-	13-0-0 6-6-0	20-0-0 7-0-0		23-6-0 3-6-0		5-9-4	29-6-0 3-8-12	
Plate Offsets (X,Y)	[2:0-2-6,Edge], [5:0-5-12,0-4	4-0], [8:0-5-6,0								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.50 BC 0.62 WB 0.81 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.19 14-15 -0.28 14-15 0.09 10	>999 >999	L/d :40 80 n/a	PLA MT2 Weig		GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

BOT CHORD 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

5-14,7-11: 2x4 SPF 1650F 1.5E

**BRACING-**

TOP CHORD BOT CHORD

WEBS

Structural wood sheathing directly applied or 4-8-2 oc purlins.

Rigid ceiling directly applied or 5-0-5 oc bracing.

1 Row at midpt 3

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=-94(LC 19)

Max Uplift 2=-296(LC 10), 10=-277(LC 11), 8=-562(LC 38) Max Grav 2=1761(LC 38), 10=2677(LC 22), 8=371(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3495/521, 3-4=-2144/406, 4-5=-2126/410, 5-6=-366/152, 6-7=-460/153,

7-8=-288/2130

BOT CHORD 2-15=-390/3187, 14-15=-390/3187, 12-14=-313/2366, 11-12=-308/2373, 10-11=-1921/356,

8-10=-1921/356

WEBS 3-14=-1383/242, 4-14=-26/629, 5-14=-628/188, 5-11=-2376/351, 7-11=-425/2605,

7-10=-2565/435

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 23-6-0, Exterior(2R) 23-6-0 to 27-0-0, Interior(1) 27-0-0 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2, 277 lb uplift at joint 10 and 562 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

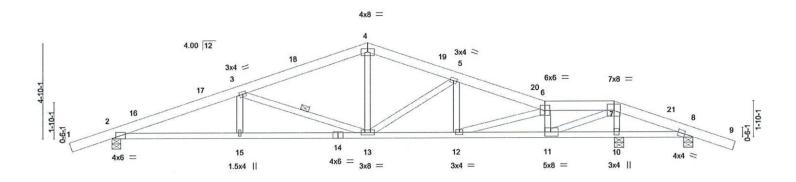


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20801



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom		R6467450
105782	A13	Roof Special	1	1			A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
100,000	6030/30		12		Job Reference (optional)		
Ballard Truss LLC,	Snowflake, AZ - 85937,				30 2020 MiTek Industries, Inc.		
			ID:CpePSM0ILfRAS:	2JS9OCf9e	yB4UR-SV7vcmHbGELtwrCN63	Ud2k1sU2mHjoP	xq2CoDVyB4H5
-2-0-0	6-6-0	13-0-0	17-6-0	22-0	-0 25-6-0	29-6-0	31-6-0
2-0-0	6-6-0	6-6-0	4-6-0	4-6-	0 3-6-0	4-0-0	2-0-0



-	6-6-0 6-6-0	1	13-0-0 6-6-0	17-6-0 4-6-0	22-0-0 4-6-0	25-6-0 3-6-0	26-0-0 29-6-0 0-6-0 3-6-0	<del></del> 1
Plate Offsets (X,Y)	[2:0-2-6,Edge], [8:0-5-6,0-1	-15], [11:0-3-8	,0-2-8]					
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.39 BC 0.58 WB 0.56 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.18 13-15 >999 -0.29 13-15 >999 0.07 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 137 lb	GRIP 185/144 FT = 10%

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E

2x4 SPF 1650F 1.5E **BOT CHORD** 

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\* WEBS

7-11: 2x4 SPF 1650F 1.5E

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 5-0-2 oc bracing. WEBS

1 Row at midpt

REACTIONS.

(size) 2=0-5-8, 10=0-5-8, 8=0-5-8

Max Horz 2=94(LC 18)

Max Uplift 2=-297(LC 10), 10=-278(LC 11), 8=-499(LC 38) Max Grav 2=1735(LC 38), 10=2643(LC 22), 8=363(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3424/510, 3-4=-2076/391, 4-5=-2037/407, 5-6=-2553/436, 6-7=-1511/301, 7-8=-283/2135

**BOT CHORD** 2-15=-379/3121, 13-15=-379/3121, 12-13=-267/2359, 11-12=-215/1645, 10-11=-1686/312,

8-10=-1933/353

3-15=0/262, 3-13=-1398/239, 4-13=-66/695, 5-13=-741/165, 6-12=-75/793,

6-11=-1344/274, 7-10=-2523/411, 7-11=-544/3450

### NOTES-

**WEBS** 

- 1) Wind: ASCE 7-16; Vull=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 25-6-0, Exterior(2R) 25-6-0 to 29-3-4, Interior(1) 29-3-4 to 31-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

Unbalanced snow loads have been considered for this design.

4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.

Provide adequate drainage to prevent water ponding.

6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

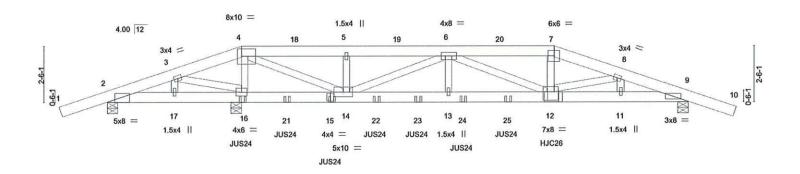
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 297 lb uplift at joint 2, 278 lb uplift at joint 10 and 499 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly design. Properly into properly design and into prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss		Truss Type		Qty	Ply	Yavapai County 3 Bedroom		12.7.2.2.2.2
105782	В1		GIRDER		1	2	Job Reference (optional)		R64674505
Ballard Truss LLC,	Snowflake,	AZ - 85937,		ID:CpePSM		8.430 s Nov	30 2020 MiTek Industries, Inc. 7 evB4UR-s3p2FoKTZ9kSnJxxnB1l		
-2-0-0	3-0-0	6-0-0	10-8-9	15-3-7	1	20-0	-0 23-0-0	26-0-0	28-0-0
2-0-0	3-0-0	3-0-0	4-8-9	4-6-13		4-8-	9 3-0-0	3-0-0	2-0-0



F	3-0-0 5-9-4 3-0-0 2-9-4	6-0-0 10-8- 0-2-12 4-8-9		15-3-7 4-6-13	20-0-0 4-8-9	23-0-0 3-0-0	26-0-0 3-0-0	
Plate Offsets (X,Y)	[2:0-4-0,Edge], [4:0-7-12,0	0-4-0], [12:0-4-0,0-4	-8], [15:0-1-14,0-2-0	0]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 NO TPI2014	CSI. TC 0.28 BC 0.50 WB 0.62 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl -0.17 12-13 >999 -0.22 12-13 >999 0.03 9 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 272 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

2x6 SPF 1650F 1.5E **BOT CHORD** 

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

4-14,6-14,6-12: 2x4 SPF 1650F 1.5E

REACTIONS.

(size) 2=0-5-8, 16=0-5-8, 9=0-5-8

Max Horz 2=51(LC 6)

Max Uplift 2=-1015(LC 30), 16=-797(LC 6), 9=-475(LC 7) Max Grav 2=505(LC 45), 16=5762(LC 30), 9=2695(LC 31)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-459/3308, 3-4=-442/3511, 4-5=-3368/540, 5-6=-3368/540, 6-7=-6071/899,

7-8=-6270/913, 8-9=-5532/764

2-17=-3055/481, 16-17=-3055/481, 14-16=-3635/555, 13-14=-873/6638, 12-13=-873/6638, **BOT CHORD** 

11-12=-656/5086, 9-11=-656/5086

3-16=-528/132, 4-16=-4617/678, 4-14=-1055/7629, 5-14=-670/155, 6-14=-3583/526, 6-13=-102/1055, 6-12=-622/226, 7-12=-156/1427, 8-12=-235/987, 8-11=-337/106

### NOTES-

**WEBS** 

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 4) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1015 lb uplift at joint 2, 797 lb uplift at joint 16 and 475 lb uplift at joint 9.

Continued on page 2

🛕 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek USA, Inc. 400 Sunrise Ave nue, Suite 270 seville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom R64674505
105782	B1	GIRDER	1	2	Job Reference (optional)

Ballard Truss LLC, Snowflake, AZ - 85937, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:43 2020 Page 2 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-s3p2FoKTZ9kSnJxxnB1KfNfPSGqEw7FNW0RTqpyB4H2

### NOTES-

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 17-11-4 to connect truss(es) to front face of bottom chord.
- 15) Use USP HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent at 19-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-100, 4-7=-100, 7-10=-100, 2-9=-20

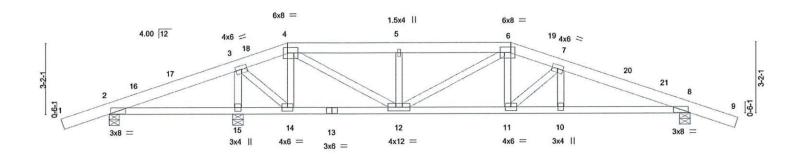
Concentrated Loads (lb)

Vert: 15=-407(F) 16=-407(F) 12=-948(F) 21=-407(F) 22=-407(F) 23=-407(F) 24=-407(F) 25=-407(F)

**REVIEWED FOR DESIGN CRITERIA** ONLY



Job	Truss	Truss Type		Qty	P	ly	Yavapai County 3 B	edroom	The Suntan Zanozina
						in last			R64674506
105782	B2	Hip		1		1			
Control to the	3535	99(21)		13			Job Reference (option	nal)	
Ballard Truss LLC,	Snowflake, AZ - 85937,				8.43	30 s Nov	30 2020 MiTek Indus	stries, Inc. Tue Dec 80	8:52:44 2020 Page 1
AND THE RESERVE OF THE PARTY OF	Contract Contract Contract Selection of			ID:CpePSM0ILfR	AS2JS9	OCf9eyE	34UR-KGNQS8L6KS	sJPSV8LuYZCaBa7fA4	fXvWkgA0MGyB4H1
-2-0-0	5-9-4	8-0-0	13-0-0	, 18	-0-0		20-2-12	26-0-0	28-0-0
2-0-0	5-9-4	2-2-12	5-0-0	5	0-0		2-2-12	5-9-4	2-0-0



1	5-9-4	8-0-0	13-0-0	, 18-0-0	, 20-2-12	26-0-0
-	5-9-4	2-2-12	5-0-0	5-0-0	2-2-12	5-9-4
Plate Offsets (X,Y) [4	:0-5-12,0-3-0], [6:0-5-12,0	-3-0]				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.28 BC 0.46 WB 0.78 Matrix-SH	DEFL. in (loc) Vert(LL) -0.11 11 Vert(CT) -0.16 11-12 Horz(CT) 0.04 8	l/defl L/d >999 240 >999 180 n/a n/a	PLATES GRIP MT20 185/144 Weight: 122 lb FT = 10%

**BRACING-**TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 15=0-5-8, 8=0-5-8

Max Horz 2=-63(LC 15)

Max Uplift 2=-149(LC 10), 15=-240(LC 10), 8=-295(LC 11) Max Grav 2=599(LC 35), 15=2034(LC 21), 8=1601(LC 35)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown.

TOP CHORD 2-3=-93/930, 3-4=-588/172, 4-5=-2025/394, 5-6=-2025/394, 6-7=-2247/414,

7-8=-2644/449

**BOT CHORD** 2-15=-827/166, 14-15=-827/166, 12-14=-25/464, 11-12=-253/2114, 10-11=-344/2381,

8-10=-344/2381

3-15=-1928/347, 3-14=-247/1688, 4-14=-1047/194, 4-12=-264/1824, 5-12=-829/190, **WEBS** 

6-12=-432/128, 6-11=-46/514, 7-11=-675/123

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 8-0-0, Exterior(2R) 8-0-0 to 13-0-0, Interior(1) 13-0-0 to 18-0-0, Exterior(2R) 18-0-0 to 22-11-6, Interior(1) 22-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.32 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8).\* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 2, 240 lb uplift at joint 15 and 295 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



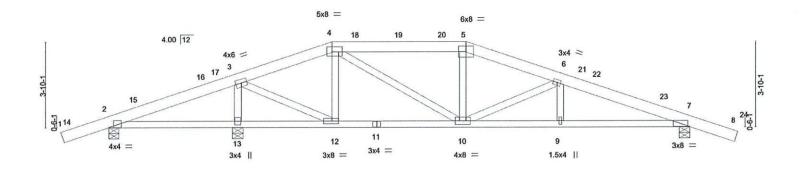
Structural wood sheathing directly applied or 5-4-6 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	The state of the s
100000			1 2 2		- 22 XV2	R64674507
105782	B3	Hip	1	1	Experience by	
					Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			8.430 s Nov	30 2020 MiTek Industries, Inc. Tue De	ec 8 08:52:45 2020 Page 1
			ID:CpePSM0IL	RAS2JS900	Cf9eyB4UR-oSwofULk5m_A0c4Kvc3olo	kjv3W?O?ygzKwZviyB4H0
-2-0-0	5-9-4	10-0-0	16-0-0	, 20	0-2-12 26-0-0	28-0-0
2-0-0	5-9-4	4-2-12	6-0-0	4	-2-12 5-9-4	2-0-0



1	5-9-4 5-9-4	10-0		16-0-0 6-0-0			-2-12 2-12		26-0-0 5-9-4	
Plate Offsets (X,Y)-										
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/	2-0-0 1.15 1.15 YES FPI2014	CSI. TC 0.34 BC 0.48 WB 0.73 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	-0.11	(loc) 9-10 9-10 7	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 120 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS.

(size) 2=0-5-8, 13=0-5-8, 7=0-5-8

Max Horz 2=75(LC 14)

Max Uplift 2=-163(LC 10), 13=-208(LC 10), 7=-294(LC 11) Max Grav 2=626(LC 35), 13=2006(LC 35), 7=1762(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-39/649, 3-4=-1189/282, 4-5=-1855/407, 5-6=-2039/401, 6-7=-2796/477 2-13=-518/113, 12-13=-518/113, 10-12=-104/1012, 9-10=-373/2525, 7-9=-373/2525 **BOT CHORD WEBS** 3-13=-1894/342, 3-12=-247/1706, 4-12=-632/165, 4-10=-145/992, 6-10=-992/156

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 10-0-0, Exterior(2R) 10-0-0 to 14-11-6, Interior(1) 14-11-6 to 16-0-0, Exterior(2R) 16-0-0 to 20-11-6, Interior(1) 20-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2, 208 lb uplift at joint 13 and 294 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



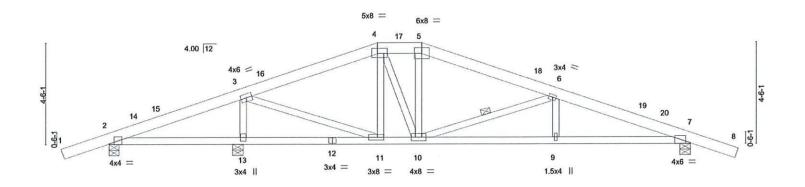
Structural wood sheathing directly applied or 5-2-10 oc purlins.

Rigid ceiling directly applied or 6-0-0 oc bracing.

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design, Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see ANSIIPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	
	n.						R64674508
105782	B4	Hip		13	1		
						Job Reference (optional)	
Ballard Truss LLC.	Snowflake, AZ - 85937.	•			8.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 (	08:52:47 2020 Page 1
Duming Troop East,			ID:Cpe			9eyB4UR-lr2Z49N_cNEuGwEj016GqDp3pt/	
-2-0-0	6-0-0	12-0-0	14-0-0		20-0-0	26-0-0	28-0-0
2-0-0	6-0-0	6-0-0	2-0-0		6-0-0	6-0-0	2-0-0



E .	5-9-4	T	12-0-0	, 14	-0-0		20-0-0		1	26-0-0	
	5-9-4	1	6-2-12	2-	0-0		6-0-0		.1	6-0-0	
Plate Offsets (X,Y)	[4:0-5-4,0-2-12], [7:0-2-6,Ec	dge], [11:0-3-8	,0-1-8]								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Tf	2-0-0 1.15 1.15 YES PI2014	BC (	0.38 0.54 0.74 SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.15 -0.21 0.05	(loc) 9-10 9-10 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 124 lb	GRIP 185/144 FT = 10%

**BRACING-**

WEBS

TOP CHORD **BOT CHORD** 

LUMBER-TOP CHORD

2x6 SPF 1650F 1.5E

**BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 2=0-5-8, 13=0-5-8, 7=0-5-8 Max Horz 2=88(LC 14)

Max Uplift 2=-164(LC 10), 13=-192(LC 10), 7=-285(LC 11) Max Grav 2=658(LC 35), 13=2262(LC 35), 7=1898(LC 35)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-34/532, 3-4=-1528/298, 4-5=-1529/346, 5-6=-1761/327, 6-7=-3207/450

BOT CHORD

2-13=-346/90, 11-13=-346/90, 10-11=-100/1272, 9-10=-350/2870, 7-9=-350/2870

WEBS

3-13=-2123/337, 3-11=-200/1731, 4-11=-516/109, 4-10=-100/710, 6-10=-1418/219

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 12-0-0, Exterior(2E) 12-0-0 to 14-0-0, Exterior(2R) 14-0-0 to 18-11-6, Interior(1) 18-11-6 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) Provide adequate drainage to prevent water ponding.
- 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 2, 192 lb uplift at joint 13 and 285 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-10-11 oc purlins.

6-10

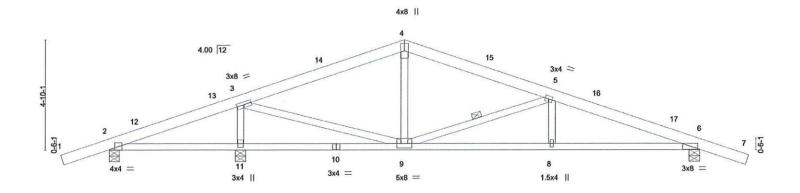
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

A WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent callapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	T	russ	Truss Type		Qty	Ply	Yavapai County 3 Bedroom		
			Laboratoria de la companya de la com			100			R64674509
105782	B	35	Common		3	1			
							Job Reference (optional)		
Ballard Truss	LLC, Snow	flake, AZ - 85937,			8	430 s Nov	30 2020 MiTek Industries, Inc. T	ue Dec 8 08:52:47 2020	Page 1
				ID:CpeP	SMOILFRA	S2JS900	f9eyB4UR-lr2Z49N_cNEuGwEj01	6GqDp3_tBAszdzRePgz	byB4H_
-2-0	0-0	5-9-4	13-0-0	I.	1	9-6-0	26-0	)-0	8-0-0
2-0	-0	5-9-4	7-2-12			6-6-0	6-6	-0	2-0-0



5-9-4 5-9-4		1	13-0-0 7-2-12			19-6-0 6-6-0			-1	26-0-0 6-6-0	
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matrix	0.37 0.50 0.47 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.19 0.04	(loc) 8-9 8-9 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 114 lb	GRIP 185/144 FT = 10%

**BRACING-**

WEBS

TOP CHORD **BOT CHORD** 

LUMBER-

TOP CHORD 2x6 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud \*Except\*

3-9: 2x4 SPF 1650F 1.5E

REACTIONS. (size) 2=0-5-8, 11=0-5-8, 6=0-5-8

Max Horz 2=94(LC 14) Max Uplift 2=-156(LC 10), 11=-190(LC 10), 6=-281(LC 11) Max Grav 2=570(LC 20), 11=1752(LC 21), 6=1517(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-42/415, 3-4=-1326/274, 4-5=-1398/269, 5-6=-2805/394 2-11=-342/91, 9-11=-342/91, 8-9=-293/2541, 6-8=-293/2541 TOP CHORD

BOT CHORD

3-11=-1621/316, 3-9=-161/1580, 4-9=0/261, 5-9=-1445/248, 5-8=0/251 **WEBS** 

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 28-0-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2, 190 lb uplift at joint 11 and 281 lb uplift at joint 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-3-5 oc purlins.

5-9

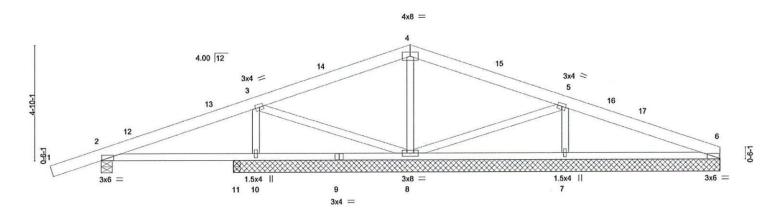
Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	D04074540
405700	B6	Common	4	1		R64674510
105782	ВО	Common		,	Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,				30 2020 MiTek Industries, Inc. T	
			ID:CpePSM0ILfRAS	S2JS9OCf9	eyB4UR-D1cxIVOcNhMlt4pvakdV	MQME1HbmbUQ6fl9EV1yB4Gz
-2-0-0	6-6-0	13-0-0	1	19-6-0	)	26-0-0
2-0-0	6-6-0	6-6-0		6-6-0		6-6-0



	5-6-8	6-6-0	13-0-0	1		19-6-0			26-0-0	
1	5-6-8	0-11-8	6-6-0	1		6-6-0		1	6-6-0	
Plate Offsets (X,Y) [2:0	)-0-6,Edge], [6:0-0-6,Edg	je]								
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/Ti	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.35 BC 0.22 WB 0.24 Matrix-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.03 -0.06 0.00	(loc) 2-11 6-7 6	I/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 111 lb	GRIP 185/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

WEBS

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. All bearings 20-5-8 except (jt=length) 2=0-5-8, 11=0-3-8. Max Horz 2=104(LC 14) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 8, 11 except 2=-171(LC 10), 7=-152(LC 11), 10=-164(LC 14) All reactions 250 lb or less at joint(s) 11 except 6=323(LC 1), 2=612(LC 20), 8=719(LC 1), 7=1116(LC 22), 10=1000(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 4-8=-559/146, 5-7=-968/226, 3-10=-906/224

**WEBS** 

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 26-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

  2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8, 11 except (jt=lb) 2=171, 7=152, 10=164.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

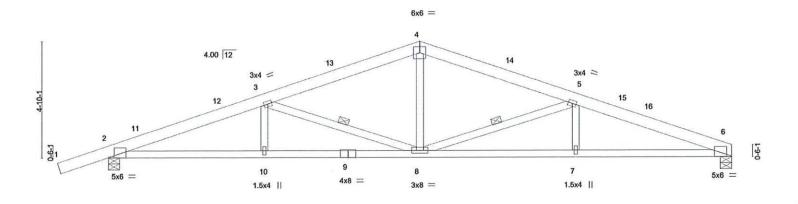
Rigid ceiling directly applied or 10-0-0 oc bracing.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



seville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	to the second of
L.	and a	- Inches Areas				R64674511
105782	B7	Common	1	1		
					Job Reference (optional)	
Ballard Truss LLC.	Snowflake, AZ - 85937,			3.430 s Nov	30 2020 MiTek Industries, Inc.	Tue Dec 8 08:52:49 2020 Page 1
			ID:CpePSM0ILfRA	S2JS9OCf	9eyB4UR-hDAJVrOE8?UbVEC	058S8kvevPegqtKt3Fuyun1TyB4Gy
-2-0-0	6-6-0	13-0-0	- 1	19-6-	-0	26-0-0
2-0-0	6-6-0	6-6-0		6-6-6	0	6-6-0



	6-6-0 6-6-0			13-0-0 6-6-0			19-6- 6-6-0			26-0-0 6-6-0	
Plate Offsets (X,Y) [2:	0-2-10,Edge], [6:0-2-10,E	dge]									
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TR	2-0-0 1.15 1.15 YES PI2014	CSI. TC BC WB Matri:	0.36 0.67 0.47 x-SH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.32 0.13	(loc) 8-10 8-10 6	I/defl >999 >946 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 111 lb	GRIP 185/144 FT = 10%

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

2x6 SPF 1650F 1.5E

TOP CHORD **BOT CHORD** 2x4 SPF 1650F 1.5E

**WEBS** 

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=0-5-8, 2=0-5-8

Max Horz 2=104(LC 18) Max Uplift 6=-195(LC 11), 2=-307(LC 10)

Max Grav 6=1579(LC 22), 2=1824(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD

2-3=-3678/560, 3-4=-2466/445, 4-5=-2468/455, 5-6=-3749/595

**BOT CHORD** 

2-10=-463/3359, 8-10=-463/3359, 7-8=-491/3459, 6-7=-491/3459

**WEBS** 

4-8=-75/847, 5-8=-1458/266, 5-7=0/255, 3-8=-1368/240, 3-10=0/252

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 13-0-0, Exterior(2R) 13-0-0 to 16-6-0, Interior(1) 16-6-0 to 25-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=195, 2=307.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-3-11 oc purlins.

5-8, 3-8

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansitrati Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Job Ply Yavapai County 3 Bedroom Truss Type Truss R64674512 105782 10 Jack-Open Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:50 2020 Page 1 Ballard Truss LLC. Snowflake, AZ - 85937, ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-9QkhjBPsvlcS7Nzli9fzSrRcK4KE3ReP7ceKZvyB4Gx 1-10-15 1-10-15 -2-0-0 2-0-0 Scale = 1:9.3 3 5 4.00 12 2 1-1-11 9-1-0 0-6-1 5x6 = 1-10-15 1-10-15 LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** GRIP 2-0-0 in (loc) 40.0 TCLL Plate Grip DOL TC 0.24 Vert(LL) -0.00 >999 240 MT20 197/144 1.15 (Roof Snow=40.0) BC 0.02 Vert(CT) -0.00 >999 180 Lumber DOL 1.15 TCDL 10.0 WB Rep Stress Incr YES 0.00 Horz(CT) -0.00 n/a n/a BCLL 0.0 Weight: 10 lb FT = 10% Code IRC2018/TPI2014 Matrix-P BCDL 10.0

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E

**BOT CHORD** 2x4 SPF 1650F 1.5E BRACING-

TOP CHORD

Structural wood sheathing directly applied or 1-10-15 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=66(LC 10)

Max Uplift 3=-199(LC 20), 2=-168(LC 10)

Max Grav 3=25(LC 10), 2=636(LC 20), 4=37(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 1-10-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

  6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=199, 2=168,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property language. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Yavapai County 3 Bedroom Job Plv Truss Type Truss R64674513 105782 Jack-Open Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:50 2020 Page 1 Ballard Truss LLC. Snowflake, AZ - 85937, ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-9QkhjBPsvlcS7Nzli9fzSrRbj4J?3ReP7ceKZvyB4Gx Scale = 1:12.6 3 4.00 12 2 4x4 = 3-10-15 Plate Offsets (X,Y)-- [2:0-3-6,Edge] LOADING (psf) SPACING-CSI. DEFL. I/defl L/d **PLATES** GRIP 2-0-0 in (loc) TCLL Vert(LL) 240 197/144 Plate Grip DOL 1.15 TC 0.28 -0.01 2-4 >999 (Roof Snow=40.0) -0.02 180 Lumber DOL 1.15 BC 0.10 Vert(CT) >999 TCDL 10.0 WB 0.00 Horz(CT) -0.00 Rep Stress Incr YES n/a n/a BCLL 0.0 Code IRC2018/TPI2014 Matrix-P Weight: 16 lb FT = 10%BCDL 10.0 LUMBER-

**BOT CHORD** 

TOP CHORD

2x6 SPF 1650F 1.5E 2x4 SPF 1650F 1.5E **BRACING-**TOP CHORD **BOT CHORD** 

Structural wood sheathing directly applied or 3-10-15 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=0-5-8, 4=Mechanical Max Horz 2=94(LC 10) Max Uplift 3=-96(LC 20), 2=-164(LC 10)

Max Grav 3=154(LC 21), 2=726(LC 21), 4=72(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=164.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/for chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITH1 Quality Criteria, DSB-89 and BCSI Building Component Safety information available from Truss Plate Institute, 2870 Crain Highway, Suite 203 Waldorf, MD 20601



Qty Yavapai County 3 Bedroom Job Truss Type Ply Truss R64674514 105782 Jack-Closed 18 **J**6 Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:51 2020 Page 1 Ballard Truss LLC, Snowflake, AZ - 85937, ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-dcI4wXQVgckJkXYUFtAC\_3\_mMUdyouuYMGNu5MyB4Gw

Scale = 1:17.0

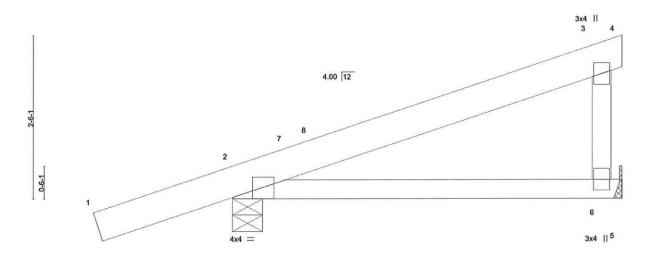


Plate Offsets (X,Y)-- [2:0-3-10,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) TCLL 40.0 Vert(LL) -0.05 2-6 240 MT20 185/144 Plate Grip DOL 1.15 TC 0.28 >999 (Roof Snow=40.0) -0.10 >664 180 Lumber DOL 1.15 BC 0.25 Vert(CT) 2-6 TCDL 10.0 WB 0.00 Horz(CT) Rep Stress Incr 0.00 n/a n/a BCLL 0.0

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD 2x6 SPF 1650F 1.5E

10.0

**BOT CHORD** 2x4 SPF 1650F 1.5E

**WEBS** 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

REACTIONS. (size) 6=Mechanical, 2=0-5-8 Max Horz 2=113(LC 11) Max Uplift 6=-53(LC 14), 2=-172(LC 10)

Max Grav 6=427(LC 21), 2=839(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2018/TPI2014

3-6=-366/245 TOP CHORD

### NOTES-

BCDL

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; WWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-14 to 1-5-2, Interior(1) 1-5-2 to 6-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=172.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 24 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

FT = 10%

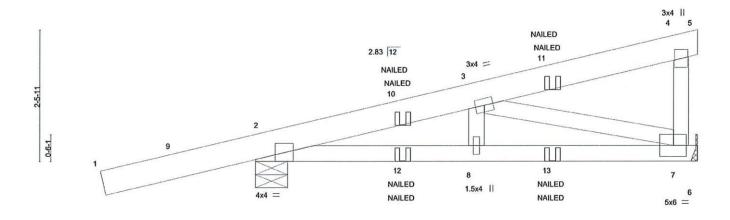
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and fruss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



400 Sunrise Avenue, Suite 270 eville, CA 95661

Job Yavapai County 3 Bedroom Truss Truss Type Qty Ply R64674515 105782 MONO GIRDER JC1 Job Reference (optional) Ballard Truss LLC, Snowflake, AZ - 85937, 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:52 2020 Page 1 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-5orS7tR7RwsAMh7gpaiRXGXsxuy\_XHniaw7ReoyB4Gv 4-2-3 4-2-3

Scale = 1:20.8



	<u> </u>			4-2-3 4-2-3				8-4-5 4-2-2				
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	0.61 0.20 0.28 x-P	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.01	(loc) 8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 39 lb	GRIP 185/144 FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SPF 1650F 1.5E 2x4 SPF 1650F 1.5E

**BOT CHORD** 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud WEBS

(size) 7=Mechanical, 2=0-7-6

Max Horz 2=106(LC 7) Max Uplift 7=-47(LC 10), 2=-201(LC 6) Max Grav 7=569(LC 17), 2=1012(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD **BOT CHORD**  2-3=-869/248, 4-7=-331/73 2-8=-314/733, 7-8=-314/733

WEBS 3-7=-762/326

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 2=201.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-100, 4-5=-100, 2-6=-20

### Continued on page 2

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.



Roseville, CA 95661

Job	Truss	Truss Type	Qty	Ply	Yavapai County 3 Bedroom	R64674515
105782	JC1	MONO GIRDER	3	1		1101011010
					Job Reference (optional)	

Ballard Truss LLC,

Snowflake, AZ - 85937,

8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:52 2020 Page 2 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-5orS7tR7RwsAMh7gpaiRXGXsxuy\_XHniaw7ReoyB4Gv

LOAD CASE(S) Standard Concentrated Loads (lb)

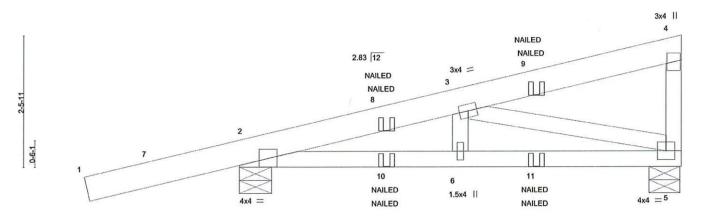
Vert: 10=68(F=34, B=34) 11=-38(F=-19, B=-19) 13=-16(F=-8, B=-8)





Job	Truss	Truss Type		Qty	Ply	Yavapai County 3 Bedroom	
	2-2						R64674516
105782	JC2	MONO GIRDER		1	1		
						Job Reference (optional)	
Ballard Truss LLC,	Snowflake, AZ - 85937,			8	.430 s Nov	30 2020 MiTek Industries, Inc. Tue Dec 8 (	08:52:53 2020 Page 1
				ID:CpePSM0ILfR	AS2JS9OC	Cf9eyB4UR-Z?PqLDSICD_1_rhsNHDg3T31ii	II?GkVrpas_AEyB4Gu
T	-2-9-15		4-2-3	W 100 100 100 100 100 100 100 100 100 10	1	8-4-5	
	2-9-15		4-2-3			4-2-2	
	_ 5 10					15.5	

Scale = 1:20.8



	-	4-2-3 4-2-3				8-3-15 4-1-12	8-4-5 0-0-6
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.15           Lumber DOL         1.15           Rep Stress Incr         NC           Code IRC2018/TPI2014	CSI. TC 0.61 BC 0.21 WB 0.31 Matrix-P	DEFL. Vert(LL) -0.0 Vert(CT) -0.0 Horz(CT) 0.0	04 5-6	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 39 lb	GRIP 185/144 FT = 10%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD

2x6 SPF 1650F 1.5E 2x4 SPF 1650F 1.5E

**BOT CHORD WEBS** 

2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud

(size) 5=0-7-0, 2=0-7-6

Max Horz 2=105(LC 9) Max Uplift 5=-44(LC 10), 2=-202(LC 6)

Max Grav 5=533(LC 17), 2=1031(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD **BOT CHORD**  2-3=-916/233, 4-5=-294/66 2-6=-300/778, 5-6=-300/778

3-5=-807/311 **WEBS** 

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate arip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-100, 2-5=-20

Concentrated Loads (lb)

Vert: 8=68(F=34, B=34) 9=-38(F=-19, B=-19) 11=-16(F=-8, B=-8)



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

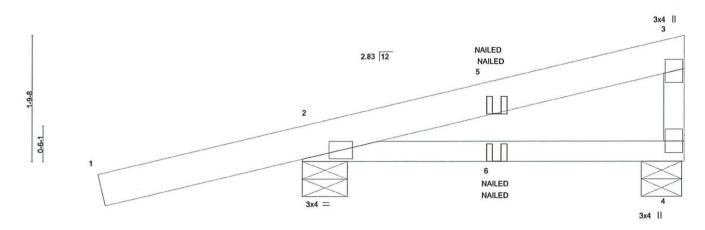
MiTek MiTek USA, Inc. 400 Sunrise Avenue, Suite 270

Roseville, CA 95661

⚠ WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIITH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Qty Ply Yavapai County 3 Bedroom Job Truss Truss Type R64674517 105782 JC3 MONO GIRDER Job Reference (optional) 8.430 s Nov 30 2020 MiTek Industries, Inc. Tue Dec 8 08:52:54 2020 Page 1 ID:CpePSM0ILfRAS2JS9OCf9eyB4UR-2BzCYZSNzX6ub?G3x?kvchcBrhe\_?Fe?2EcYihyB4Gt Ballard Truss LLC. Snowflake, AZ - 85937.

Scale = 1:15.8



		<u> </u>		5-5-5 5-5-5	5-5 <sub>n</sub> 11 0-0-6
LOADING (psf) TCLL 40.0 (Roof Snow=40.0) TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr Nt Code IRC2018/TPI2014	5 TC 0.65 5 BC 0.23 0 WB 0.00	DEFL. in Vert(LL) -0.04 Vert(CT) -0.07 Horz(CT) -0.00	(loc)  /defl	PLATES GRIP MT20 185/144 Weight: 23 lb FT = 10%

LUMBER-

**TOP CHORD** 2x6 SPF 1650F 1.5E

**BOT CHORD** 2x4 SPF 1650F 1.5E

**WEBS** 2x4 DF Stud or 2x4 HF Stud or 2x4 SPF Stud **BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 5-5-11 oc purlins,

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-7-0, 2=0-7-12

Max Horz 2=74(LC 7) Max Uplift 4=-118(LC 16), 2=-207(LC 6) Max Grav 4=217(LC 17), 2=929(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=33ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 2) TCLL: ASCE 7-16; Pf=40.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.4) This truss has been designed for greater of min roof live load of 20.0 psf or 2.00 times flat roof load of 40.0 psf on overhangs non-concurrent with other live loads.
- 5) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=118, 2=207.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

Uniform Loads (plf)

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Vert: 1-3=-100, 2-4=-20 Concentrated Loads (lb) Vert: 5=68(F=34, B=34)





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property langue. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPIT Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

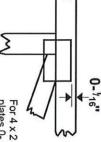
## Symbols

# PLATE LOCATION AND ORIENTATION



Apply plates to both sides of truss offsets are indicated. Center plate on joint unless x, y Dimensions are in ft-in-sixteenths.

and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss

œ

6

S

5

required direction of slots in This symbol indicates the connector plates.

\*Plate location details available in MiTek 20/20 software or upon request.

### PLATE SIZE

4 × 4

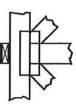
width measured perpendicular to slots. Second dimension is the length parallel to slots. The first dimension is the plate

## LATERAL BRACING LOCATION



if indicated. output. Use T or I bracing by text in the bracing section of the Indicated by symbol shown and/or

### BEARING



Min size shown is for crushing only. reaction section indicates joint number where bearings occur. (supports) occur. Icons vary but Indicates location where bearings

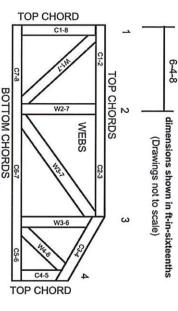
## Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

DSB-89:

Guide to Good Practice for Handling, Building Component Safety Information, Connected Wood Trusses. Installing & Bracing of Metal Plate

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1 established by others.

© 2012 MiTek® All Rights Reserved



MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

# General Safety Notes

- Damage or Personal Injury

  1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BQSh Rywide truss spacing, individual lateral braces themsaws on may require bracing, or alternative Tor I bracing should be considered.

  3. Never exceed the design loading shown and never the property of the property of the property.

stack materials on inadequately braced trusses

Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and

4

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

œ

Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.